



I hereby certify that this correspondence is being deposited with the United States Postal Service first class mail in an envelope addressed to:
Commissioner for Patents, P.O. Box 1450
Alexandria, VA 22313-1450, on November 5, 2004

QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.

By

Juliana Hermes
Juliana Hermes

Attorney Docket No. 54-000250US
Client Ref. No. 983.5/NOV0359P

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Alexander Deiters, et al.

Application No.: 10/826,919

Filed: April 16, 2004

For: UNNATURAL REACTIVE AMINO
ACID GENETIC CODE ADDITIONS

Confirmation No.

Examiner: Unassigned

Art Unit: 1632

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR § 1.97 and
§ 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

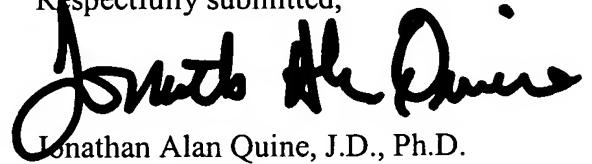
Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action on the merits per 37 CFR 1.97(b)(3). However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Jonathan Alan Quine, J.D., Ph.D.
Reg. No. 41,261

QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.
P.O. BOX 458
Alameda, CA 94501
(510) 337-7871
Fax (510) 337-7877

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

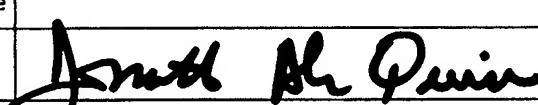
TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/826,919
		Filing Date	April 16, 2004
		First Named Inventor	Alexander Deiters
		Group Art Unit	1632
		Examiner Name	Unassigned
Total Number of Pages in This Submission		Attorney Docket Number	54-000250US

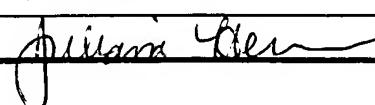
ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> 1449 form, Cited references, and receipt acknowledgment postcard
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Small Entity Statement	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Authorization to Charge Deposit Account Please charge Deposit Account No. 50-0893 for any additional fees associated with this paper or during the pendency of this application, including any extensions of time for consideration of the documents enclosed.		
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jonathan Alan Quine, Reg. No. 41,261, Quine Intellectual Property Law Group, P.C.
Signature	
Date	11 - 6 - 04

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	Juliana Hermes		
Signature		Date	November 5, 2004

NOV 08 2004

PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A-B/PTO

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>	Application Number	10/826,919
	Filing Date	April 16, 2004
	First Named Inventor	Alexander Deiters
	Group Art Unit	1632
	Examiner Name	Unassigned
	Attorney Docket Number	54-000250US
	Date Submitted	November 5, 2004

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
1	WO	2002/086075			The Scripps Research Institute	10-31-2002		
2	WO	2002/085923			The Scripps Research Institute	10-31-2002		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
3	Anderson et al., (2002) <i>Exploring the Limits of Codon and Anticodon Size</i> , <i>Chemistry and Biology</i> , 9:237-244		
4	Blake (2001) <i>Cellular screening assays using fluorescence microscopy</i> <i>Curr. Opin. Pharmacol.</i> , 1:533-539		
5	Bolletta, F. et al., (1996) <i>Synthesis and Photophysical Properties of Fluorescent Derivatives of Methylmercury</i> , <i>Organometallics</i> 15:2415-17		
6	Carboni, B et al., (1993) <i>Aliphatic Amino Azides as Key Building Blocks for Efficient Polyamine Syntheses</i> , <i>J. Org. Chem.</i> 58:3736-3741		

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/826,919
		Filing Date	April 16, 2004
		First Named Inventor	Alexander Deiters
		Group Art Unit	1632
		Examiner Name	Unassigned
		Attorney Docket Number	54-000250US
Date Submitted	November 5, 2004		

	7	Chin et al., (2002), <i>Addition of p-Azido-L-phenylalanine to the Genetic code of Escherichia coli</i> , <u>J. Am. Chem. Soc.</u> 124:9026-9027	
	8	Chin and Schultz, (2002), <i>In vivo Photocrosslinking with Unnatural Amino Acid Mutagenesis</i> , <u>Chem BioChem</u> 11:1135-1137	
	9	Chin, et al., (2002), <i>Addition of a Photocrosslinker to the Genetic Code of Escherichia coli</i> , <u>Proc. Natl. Acad. Sci. U. S. A.</u> 99:11020-11024	
	10	Chin, et al., (2003) <i>Progress toward an expanded eukaryotic genetic code</i> , <u>Chem. Biol.</u> , 10(6):511-519	
	11	Chin, et al., (2003) <i>An expanded eukaryotic genetic code</i> , <u>Science</u> , 301(5635):964-7	
	12	Cornish, et al., (1996) <i>Site-Specific Protein Modification Using a Ketone Handle</i> , <u>Journal of the American Chemical Society</u> 118:8150-8151	
	13	Crisp, G. T.; & Gore, J. (1997) <i>Preparation of Biological Labels with Acetylenic Linker Arms</i> , <u>Tetrahedron</u> 53:1505-1522	
	14	Feng et al., (2003), <i>Expanding tRNA recognition of a tRNA synthetase by a single amino acid change</i> , <u>PNAS</u> 100(10): 5676-5681.	
	15	Forster et al., (2003) <i>Programming peptidomimetic synthetases by translating genetic codes designed de novo</i> <u>PNAS</u> 100(11):6353-6357	
	16	Francklyn et al., (2002), <i>Aminoacyl-tRNA synthetases: Versatile players in the changing theater of translation</i> ; <u>RNA</u> , 8:1363-1372	
	17	Griffin, et al., (1998) <i>Specific covalent labeling of recombinant protein molecules inside live cells</i> , <u>Science</u> 281:269-272.	
	18	Hamano-Takaku et al., (2000) <i>A mutant Escherichia coli Tyrosyl-tRNA Synthetase Utilizes the Unnatural Amino Acid Azatyrosine More Efficiently than Tyrosine</i> , <u>Journal of Biological Chemistry</u> , 275(51):40324-40328	
	19	Kiga et al. (2002), <i>An engineered Escherichia coli tyrosyl-tRNA synthetase for site-specific incorporation of an unnatural amino acid into proteins in eukaryotic translation and its application in a wheat germ cell-free system</i> , <u>PNAS</u> 99(15): 9715-9723	
	20	Kiick et al., (2002) <i>Incorporation of azides into recombinant proteins for chemoselective modification by the Staudinger ligation</i> , <u>PNAS</u> 99:19-24	
	21	Lemineux, & Bertozzi, (1996) <i>Chemoselective ligation reactions with proteins, oligosaccharides and cells</i> , <u>TIBTECH</u> , 16:506-513	
	22	Liu, D.R. & Schultz, P.G. (1999) <i>Progress toward the evolution of an organism with an expanded genetic code</i> . <u>PNAS United States</u> 96:4780-4785	
	23	Magliery, (2001) <i>Expanding the Genetic Code: Selection of Efficient Suppressors of Four-</i>	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/826,919
		Filing Date	April 16, 2004
		First Named Inventor	Alexander Deiters
		Group Art Unit	1632
		Examiner Name	Unassigned
		Attorney Docket Number	54-000250US
		Date Submitted	November 5, 2004

		<i>base Codons and Identification of "Shifty" Four-base Codons with a Library Approach in Escherichia coli, J. Mol. Biol. 307: 755-769</i>	
	24	<i>Mahal, et al., (1997) Engineering chemical reactivity on cell surfaces through oligosaccharide biosynthesis, Science, 276:1125-1128</i>	
	25	<i>Padwa, A. (1991) Intermolecular 1,3-Dipolar Cycloadditions in Comprehensive Organic Synthesis, Vol. 4, Ed. Trost, B. M., Pergamon, Oxford, p. 1069-1109</i>	
	26	<i>M. Pasternak, et al., (2000), A new orthogonal suppressor tRNA/aminoacyl-tRNA synthetase pair for evolving an organism with an expanded genetic code, Helvetica Chimica Acta 83:2277</i>	
	27	<i>Rostovtsev, et al., (2002) A stepwise Huisgen cycloaddition process: copper(I)-catalyzed regioselective "ligation" of azides and terminal alkynes, Angew. Chem. Int. Ed. 41:2596-2599</i>	
	28	<i>Speers, et al., (2003) Activity-based protein profiling in vivo using a copper(I)-catalyzed azide-alkyne [3 + 2] cycloaddition, J. Am. Chem. Soc., 125:4686-4687</i>	
	29	<i>Tornøe, et al., (2002) Peptidotriazoles on solid phase: [1,2,3]-triazoles by regiospecific copper(I)-catalyzed 1,3-dipolar cycloadditions of terminal alkynes to azides, Org. Chem. 67:3057-3064</i>	
	30	<i>Wang, et al., (2001), Expanding the genetic code of Escherichia coli, Science 292:498-500</i>	
	31	<i>Wang, et al., (2002), Adding L-3-(2-naphthyl)alanine to the genetic code of E-coli, J. Am. Chem. Soc. 124:1836-1837</i>	
	32	<i>Wang and Schultz, (2002), Expanding the Genetic Code, Chem. Comm. 1-10</i>	
	33	<i>Wang, et al., (2003) Addition of the keto functional group to the genetic code of Escherichia coli, Proc. Natl. Acad. Sci., 100:56-61</i>	
	34	<i>Wang, et al., (2003) Bioconjugation by copper(I)-catalyzed azide-alkyne [3 + 2] cycloaddition. J. Am. Chem. Soc., 125:3192-3193</i>	
	35	<i>Wouters, et al., (2001) Imaging biochemistry inside cells, Trends in Cell Biology 11:203-211</i>	
	36	<i>Zacharias, et al., (2000) Recent advances in technology for measuring and manipulating cell signals, Curr. Opin. Neurobiol., 10:416-421</i>	
	37	<i>Zhang et al., (2002), The selective incorporation of alkenes into proteins in Escherichia coli, Angewandte Chemie. International Ed. in English 41:2840-2842</i>	
	38	<i>Zhang, et al., (2003) A new strategy for the site-specific modification of proteins in vivo, Biochemistry, 42:6735-6746</i>	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.